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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/617,215	07/07/2003	Francesco Grilli	030337 3124	
23696 OLIAL COMM	7590 07/30/2007 INCORPORATED		EXAMINER	
5775 MOREH	OUSE DR.		DADA, BEEMNET W	
SAN DIEGO, CA 92121			ART UNIT	PAPER NUMBER
		•	2135	,
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			NOTIFICATION DATE	DELIVERY MODE
			07/30/2007 .	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

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	Application No.	Applicant(s)			
	10/617,215	GRILLI ET AL.			
Office Action Summary	Examiner	Art Unit			
	Beemnet W. Dada	2135			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period v Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. they filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 10 M	lay 2007.				
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	Ex-parte Quayle, 1935 C.D. 11, 45	33 O.G. 213.			
Disposition of Claims					
4) ☐ Claim(s) 1-61 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-61 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s)	4) 🔲 Interview Summary	(DTO 440)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	(PTO-413) ite atent Application				

DETAILED ACTION

1. This office action is in reply to an amendment filed on May 10, 2007. Claims 1-61 are pending.

Response to Arguments

2. Applicant's arguments with respect to claim 1-61 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

- 3. Claims 1-11 and 22-51 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.
- 4. Claims 22 and 3 are directed to a secure registration system. The examiner respectfully asserts that the claimed subject matter does not fall within the statutory classes listed in 35 USC 101. Claims 22 and 30 recite means for function which is defined in the specification to be implemented through software [see specification paragraphs 1029 and 1031] and therefore, the recited claims are directed to functional descriptive material. Generally functional descriptive material (i.e., software) is statutory when it is stored on a tangible computer readable storage medium. Claims 22 and 30 are rejected as being directed to a functional descriptive material. Claims 23-29 and 31-39 depend from claims 22 and 30, and therefore are rejected under the same rationale.

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5. Claims 1-11, 22-29 and 41-51 are directed to a secure registration system. The examiner respectfully asserts that the claimed subject matter does not fall within the statutory classes listed in 35 USC 101. Examiner respectfully asserts that the act of generating a registration key as recited in independent claims 11, 22 and 41 is not a tangible result. Claims 11, 22 and 41 are rejected as being directed to an abstract idea (i.e., producing non-tangible result) [tangible requirement does require that the claim must recite more than a 101 judicial exception, in that the process claim must set forth a practical application of that 101 judicial exception to produce a real-world result, Benson, 409 U.S. at 71-72, 175 USPQ at 676-77]. Claims 12-21, 23-29 and 42-51 depend from claims 1, 22 and 41, and are rejected under the same rationale.

Claim Rejections - 35 USC § 102

6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 7. Claims 1-61 are rejected under 35 U.S.C. 102(e) as being anticipated by Faccin et al. US 6,879,690 B2 (hereinafter Faccin).

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8. As per claims 1, 22 and 41, Faccin teaches a method of obtaining secure registration by a memory module (UICC) in a multicast-broadcast-multimedia system (MBMS), the method comprising:

receiving a random number (RANDTSK, column 9, lines 63-67 and column 10, lines 11-14);

generating a radio access network key (RAK) (i.e., generating new TSK value) as a function of the random number (i.e., RANDTSK) and a key selected from the group consisting of a public land mobile network key (PK) and a broadcast access key (BAK) (i.e., long-term key) [column 10, lines 45-47 and figure 5]; and

generating a temporary registration key (RGK) (i.e., AUTHU) as a function of the RAK [column 10, lines 63 –67].

9. As per claims 12, 31 and 52, Faccin teaches a method of obtaining secure registration by a mobile station in a multicast-broadcast-multimedia system (MBMS), the method comprising:

receiving a random number from a radio access network (i.e., AAAv receiving RANDTSK, column 10, lines 11-13);

transmitting the random number to a memory module (UICC) (i.e., transmitting RANDTSK to mobile node/device, column 10, lines 11-14); and

receiving from the UICC a temporary registration key (RGK) based on the random number [column 10, lines 45-60].

10. As per claims 2, 23 and 42, Faccin further teaches the method further comprising transmitting the RGK to a mobile telephone [column 10, lines 60-67].

- 11. As per claims 3-5, 24-26 and 43-45, Faccin further teaches the method further comprising receiving a provisioning message from a broadcast-multicast service center [figure 4 and 5].
- 12. As per claims 6, 7, 27, 28, 46 and 47, Faccin further teaches the method wherein the RGK is a function of the RAK, a service identification number and a user identification number [column 10, lines 60-67 and figures 4 &5].
- 13. As per claims 8, 18, 37, 48 and 58, Faccin further teaches the method wherein the UICC comprises a subscriber identity module (SIM) in a GSM system [figures 1 and 2].
- 14. As per claims 9, 19, 38, 49 and 59, Faccin further teaches the method wherein the UICC comprises a RUIM in CDMA system [figures 1 and 2].
- 15. As per claims 10, 11, 20, 21, 29, 30, 39, 40, 50, 51,60 and 61, Faccin further teaches the method wherein the PK/BAK is provisioned by using a public key [column 10, lines 25-67].
- 16. As per claims 13, 32 and 53, Faccin further teaches the method wherein the RGK is a function of a radio access network key (RAK) which is a function of the random number and a key selected from the group consisting of a public land mobile network key (PK) and a broadcast access key (BAK) [column 10, lines 45-47 and figure 5].

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17. As per claims 14, 15, 33, 34, 54 and 55, Faccin further teaches the method wherein the PK is extracted from a provisioning message received from a broadcast-multicast service center [figure 4 and 5].

18. As per claims 16, 17, 35,36, 56 and 57, Faccin further teaches the method wherein the RGK is a function of the RAK, a service identification number and a user identification number [column 10, lines 60-67 and figures 4 &5].

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Beemnet W. Dada whose telephone number is (571) 272-3847. The examiner can normally be reached on Monday - Friday (9:00 am - 5:30 pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Y. Vu can be reached on (571) 272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Beemnet W Dada

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